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this course emphasizes the topological structure of smooth manifolds and curves and also differential geometry in a more general setup. the emphasis is on the point-set topology and basic ideas are illustrated using flat surfaces. then the differential geometry of surfaces is studied, and the riemannian geometry of surfaces is discussed. the metric structure of riemannian surfaces and their applications in mathematics and physics are also discussed. the basic concepts of riemannian geometry such as riemannian curvature tensors and the geodesic distance are covered. the concept of conformal riemannian geometry and the weyl curvature tensor are discussed. the gauss-bonnet theorem for compact riemann surfaces and the alexandrov reflection theorem for riemannian-carathéodory space are illustrated. the gauss-bonnet theorem for domain manifolds is generalized, and the gauss-bonnet theorem for non-compact riemannian manifolds is discussed. the concept of complete riemannian manifolds is introduced. the isoperimetric problem and the related blaschke flat surfaces are discussed. the basic notions of riemannian geometry of free boundary are also described. all these problems are solved using the gauss-bonnet theorem of compact riemann surfaces and the alexandrov reflection theorem for riemannian-carathéodory manifolds. all the examples are illustrated with the aid of available open source software. the course is intended for both undergraduate and postgraduate students. file size & downloads, size 6.5 mib. downloads 437. desciption: in this book students will learn about the following topics- euclidean plane geometry, geometry of weights and measures, curves and surfaces of euclidean plane, surfaces of spherical 3-space, surfaces of hyperbolic 3-space, riemann mapping and uniformization, the euclidean plane as an affine space and constructing standard graphs, geometry of function fields, curves and surfaces in the complex plane, standard vs. non-standard descriptions of curves and surfaces, analytic geometry, differential geometry, convex hulls, focal properties, and beltrami differential equations.

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